

## 1.7 Find Perimeter, Circumference, and Area

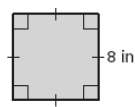
Square  $\square$   $P = 4s$   $A = s^2$

Rectangle  $\square$   $P = 2l + 2w$   
 $A = lw$

Triangle  $\triangle$   $A = \frac{1}{2}bh$

Circle  $\bigcirc$   $C = 2\pi r$   $A = \pi r^2$

Find the perimeter (or circumference) and area of the figure.

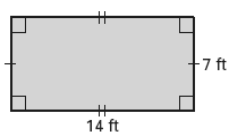


$$P = 32 \text{ in}$$

$$A = 64 \text{ in}^2$$

from wSA

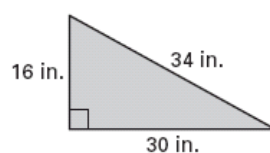
Find the perimeter (or circumference) and area of the figure.



$$P = 2(14) + 2(7) = 42 \text{ ft}$$

$$A = 98 \text{ ft}^2$$

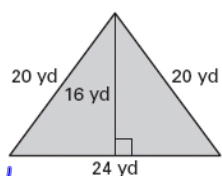
Find the perimeter (or circumference) and area of the figure.



$$P = 16 + 30 + 34 = 80 \text{ in}$$

$$A = \frac{1}{2} 16 \cdot 30 = 240 \text{ in}^2$$

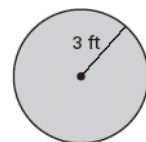
Find the perimeter (or circumference) and area of the figure.



$$P = 64 \text{ yd}$$

$$A = 192 \text{ yd}^2$$

Find the perimeter (or circumference) and area of the figure.



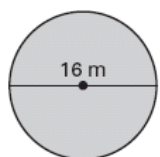
$$C = 6\pi \text{ ft}$$

$$\approx 18.8 \text{ ft}$$

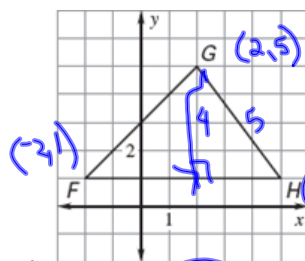
$$A = 9\pi \text{ ft}^2$$

$$\approx 28.3 \text{ ft}^2$$

Find the perimeter (or circumference) and area of the figure.



Find the perimeter (or circumference) and area of the figure. Round to the nearest tenth.



$$GH = \sqrt{(5-2)^2 + (1-5)^2}$$

$$= \sqrt{9 + 16}$$

$$GH = 5$$

$$GF = \sqrt{(2-(-3))^2 + (5-1)^2}$$

$$= \sqrt{16 + 16}$$

$$GF = \sqrt{32}$$

$$= 5.7$$

$$A = \frac{1}{2} 8 \cdot 4 = 16$$

$$P = 17.7$$

The area of a rectangle is 551 square inches, and its width is 19 inches. Find the length of the rectangle.

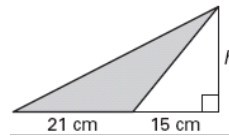
$$A = l \cdot w$$

$$551 = 19 \cdot l$$

$$29 \text{ in} = l$$

Area = 189 cm<sup>2</sup>

Find height.



$$A = \frac{1}{2}bh$$

$$189 = \frac{1}{2} 36 \cdot h$$

$$18 \text{ cm} = h$$

The circumference of a circle is 37.7 in. Find the area.

$$C = 2\pi r$$

$$\frac{37.7}{(2\pi)} = \frac{2\pi r}{2\pi}$$

$$6.0 = r$$

$$A = 113.1 \text{ in}^2$$

HW

p52-54

#s 4-9, 16-18, 27-29, 31, 32